

STARTUP INSPECTION FOR GENERATOR POWER SYSTEMS

Site ID #: _____

<u>DEALER INFORMATION</u>	<u>OWNER INFORMATION</u>
NAME: _____ ADDRESS: _____ _____ PHONE: _____	NAME: _____ ADDRESS: _____ _____ SITE: _____ PHONE: _____ SIGNATURE: _____

PURCHASE DATE: _____ STARTUP DATE: _____ STARTUP TECHNICIAN: _____

ALTERNATOR & TRANSFER SWITCH DATA PLATE INFORMATION

<u>ALTERNATOR</u>
MODEL NUMBER _____
SERIAL NUMBER _____

<u>TRANSFER SWITCH</u>
MODEL NUMBER _____
SERIAL NUMBER _____

Engine Serial # (if _____)

SYSTEM ELECTRICAL DATA

<u>UTILITY SERVICE</u>
PHASE _____ PHASE ROTATION _____ VOLTS _____ AMPS _____
Not required by Manufacturer. For State use only

<u>ALTERNATOR SERVICE</u>
PHASE _____ PHASE ROTATION _____ VOLTS _____ AMPS _____
Not required by Manufacturer. For State use only

PRE-START CHECKS

- Inspect for the following:
- Freight damage (components tight, straight, etc.)
 - Proper belt alignment and tensions
 - Governor rod movement and clearance
 - Fluid levels (oil, anti-freeze, battery, governor, etc.)
 - Correct fuel and exhaust plumbing
 - Adequate air flow
 - Correct AC wire sizes and connections
 - Correct DC wire sizes and connections (route separate from AC)
 - Proper size battery(ies)

Close the AC circuit breaker to block heater and battery charger.

- Block heater is operational
- Battery charger is operational
- Battery charge voltage _____

PREPARATION FOR STARTUP

- In the transfer switch, set safety disconnect switch to "Manual"
- Connect AC frequency meter and ammeter
- Connect battery(is)
- Bleed the fuel system
- Is the electrical system on Dummy load?

RUNNING CHECKS

Start the engine. Bring up to speed slowly by holding the carburetor/governor linkage. Complete the following checks:

APPLICATION

RUNNING CHECKS (CONTINUED)

- Check DC alternator output. AMPS _____ VOLTS _____
- Adjust frequency (Hertz) to correct no-load setting (see manufacturer's recommendations)
- If necessary, adjust DC control/latch-crank circuit board
- Check no-load voltage. Adjust voltage regulator if necessary
- Test automatic shutdowns (low oil pressure, low coolant level, High coolant temperature, overspeed set to _____ Hz. (Other _____))
- Engine coolant temperature (hot run) = _____
- Oil pressure (hot run) = _____
- Check for fluid leaks
- If required, adjust carburetor/governor to handle full load
- Transfer customer loads to alternator. Load amps = _____
- No-load voltage = _____ Full load voltage = _____
- No load frequency _____ Full load frequency _____
- Function test: Manufacturer-supplied accessories (i.e. remote annunciator, pre-alarms, day tanks, etc.)
- INSTRUCT END USER ON FUNCTIONS OF UNIT. Set times to Customer's request and run a simulated power outage.

OPTIONAL TRANSFER SWITCH DATA

The following data is not required by Manufacturer, but may be included for State use if desired

EXERCISE DAY _____ EXERCISE TIME OF DAY _____

TIMER & SENSOR SETTINGS

Voltage Dropout Sensor _____ Line Interrupt Delay Timer _____
Eng. Minimum Run Time _____ Engine Warm-up _____

Standby Power Primer Power

Timer _____
 Standby Voltage Sensor _____ Standby Freq. Sensor _____
 Time Delay Neutral Time _____ Voltage Pickup Sensor _____
 Return to Utility Timer _____ Engine Cool-down Timer _____

**LIQUID - COOLED STAND-BY POWER SYSTEM
 CUSTOMER INSPECTION and Acceptance**

This acceptance testing is made this _____ day of _____ 20____ between
 (Service Dealer) _____ and the State of Maryland .

In consideration of the agreements herein contained:

1. The customer agrees to: Remit the amount of \$ N/A for a period of _____
N/A years.
2. The Service Dealer agrees for a period of _____ year(s) from initial startup (or
 effective date _____) of the standby power system to inspect, test and
 adjust the unit at approximately 6-month intervals.

Data Plate Information

Alternator

Transfer Switch

Model No. _____
 Serial No. _____
 Up Date _____
 Volts _____
 Amps _____
 Power Factor _____

Model No. _____
 Serial No. _____ Initial Start

Pass	Fail		Pass	Fail	
		PRE-START CHECKS			ENGINE RUNNING
_____	_____	Engine Fluid Levels	_____	_____	Ignition Points/Distributor Cap Rotor
_____	_____	Fuel Line Filter	_____	_____	Choke/Diesel Preheat
_____	_____	All Coolant Hoses	_____	_____	Ignition Point Dwell/Timing
_____	_____	Engine Coolant Heater	_____	_____	Diesel Injection System
_____	_____	LPG Sludge Drain	_____	_____	Carburetor
_____	_____	All Pulley Belts	_____	_____	Engine Governor/Actuator
_____	_____	Battery Trickle Charger/Battery Cables	_____	_____	D.C. Engine Alternator
_____	_____	Battery Warmer	_____	_____	All Gauges
_____	_____	Battery Water Level	_____	_____	Warning Lights/Shutdowns
_____	_____	Battery Specific Gravity	_____	_____	Output Voltage/Flicker
_____	_____	Spark Plug Wires	_____	_____	All Electrical Connections
_____	_____	Spark Plugs	_____	_____	All Electrical Controls
_____	_____	Engine Cylinder Compression	_____	_____	Automatic Telephone Dialer
_____	_____	Electrical Connections	_____	_____	Alarm Annunciator
_____	_____	Annunciator Panel	_____	_____	Transfer Switch Operation
_____	_____	Change Oil/Filters	_____	_____	Fuel Regulation Diagram
			_____	_____	Oil Pressure
			_____	_____	Water Temperature
			_____	_____	Fluid Leaks

Comments or Additional Work Requested: _____

Vendor

Company Name _____ Phone _____

Address _____

Authorized Signature _____ Date _____